The listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claim 1 (Currently amended): An industrial robot comprising a first member and a

second member which rotate relatively at a joint portion thereof;

the first member including:

a first mount portion where a first positioning member is embedded and

a <u>first</u> guide portion along which the <u>first</u> positioning member slides in such a

manner as to produce; and

the second member including:

an abutment portion which is brought into abutment with the <u>first</u> positioning

member when the first and second members are made to rotate relatively.

Claim 2 (withdrawn): An industrial robot comprising a first member and a second

member which rotate relatively at a joint portion thereof;

the first member including:

a first mount portion where a first positioning member is embedded and

a first guide portion along which the first positioning member slides in such a

manner as to protrude; and

the second member including:

a second mount portion where a second positioning member is embedded and

a second guide portion along which the second positioning member slides in

such a manner as to protrude,

when the first member and the second member are made to rotate relatively.

Claim 3 (Currently amended): An industrial robot as set forth in Claim 1 or 2,

wherein the positioning member is held at a position where the positioning member does not

protrude from the first member when performing a normal operation, whereas only when

performing an origin adjustment, the positioning member is made to protrude.

Claim 4 (Currently amended): An industrial robot as set forth in Claim 3, wherein

the <u>first</u> positioning member is brought into abutment as a mechanical origin position of the

industrial robot.

Claim 5 (Currently amended): An industrial robot as set forth in Claim 3, further

comprising calculation means for bringing the <u>first</u> positioning member into abutment as a

position which is displaced from a mechanical origin position through a known angle

determined in advance and calculating the mechanical origin position using the known

angular displacement and the abutment position of the <u>first</u> positioning member.

Claim 6 (Currently amended): An industrial robot as set forth in Claim 3, wherein

the abutment of the first positioning member is determined by monitoring a torque generated

in the second member using a current to a driving motor for relatively rotating the second

member.

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Claim 7 (New): An industrial robot as set forth in Claim 1, wherein the abutment

portion of the second member includes:

a second mount portion where a second positioning member is embedded; and

a second guide portion along which the second positioning member slides in

such a manner as to protrude,

wherein the second positioning member is brought into abutment with the first

positioning member when the first and second members are made to rotate relatively.